

Product Overview

NCP603: LDO Regulator, 300 mA, High Performance, with Enable and Enhanced ESD Protection

For complete documentation, see the data sheet.

The NCP603 Low Dropout (LDO) Linear Voltage Regulator provides 300 mA of output current at fixed voltage options, or an adjustable output voltage from 5.0 V down to 1.250 V. It is designed for portable battery powered applications and offers high performance features such as low power operation, fast enable response time, and low dropout. The device is designed to be used with low cost ceramic capacitors and is packaged in the TSOP-5/SOT23-5.

Features

- Low Dropout Voltage
- 3.0% Output Voltage Tolerance
- Enhanced ESD range (HBM 3.5 kV, MM 400 V)
- Adjustable Output by External Resistors from 5.0 V down to 1.250 V
- Fast Enable Turn-on Time of 15 us
- Excellent Line and Load Regulation
- Typical Noise Voltage of 50 uVrms without a Bypass Capacitor
- Camcorders

Benefits

- Extends battery usage. Retains regulation longer
- Tight tolerance for high performance applications
- Enhanced robustness of the part against ESD events

Applications

- Consumer
- Communication Equipment
- SMPS Post Regulation
- Hand-held Instrumentation
- Portable Computing

End Products

- Cameras

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Min (V)	V _I Max (V)	V _{DO} Typ (V)	I _B Typ (mA)	PSR R (dB)	Noise (μV _{rms})	Enable	Power Good	Application	Package Type
NCP603SN180T1G	0.2283	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	1.8	0.3	1.8	6.5	0.245	0.145	55	50	Yes	No		TSOP-5 / SOT-23-5
NCP603SN300T1G	0.2283	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3	0.3	1.8	6.5	0.157	0.145	55	50	Yes	No		TSOP-5 / SOT-23-5
NCP603SN330T1G	0.2283	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	3.3	0.3	1.8	6.5	0.157	0.145	55	50	Yes	No		TSOP-5 / SOT-23-5
NCP603SNADJT1G	0.2283	Pb-free Halide free non AEC-Q and PPAP	Active	Single	Positive	Adj	0.3	1.8	6.5	0.375	0.145	55	50	Yes	No		TSOP-5 / SOT-23-5

For more information please contact your local sales support at www.onsemi.com.

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